

531,397

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 April 2004 (29.04.2004)

PCT

(10) International Publication Number  
**WO 2004/036821 A1**

(51) International Patent Classification<sup>7</sup>: **H04L 7/04**,  
12/403, 25/02, G06F 1/12

[NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(21) International Application Number:  
PCT/IB2003/003631

(74) Agent: **GROENENDAAL, Antonius, W., M.**; Philips Intellectual Property & Standards, Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL).

(22) International Filing Date: 13 August 2003 (13.08.2003)

(25) Filing Language: English.

(26) Publication Language: English

(30) Priority Data:  
02079341.0 18 October 2002 (18.10.2002) EP

(81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(71) Applicant (*for all designated States except US*): **KONINKLIJKE PHILIPS ELECTRONICS N.V.** [NL/NL]; Groenewoudseweg 1, NL-5621 BA Eindhoven (NL).

(84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

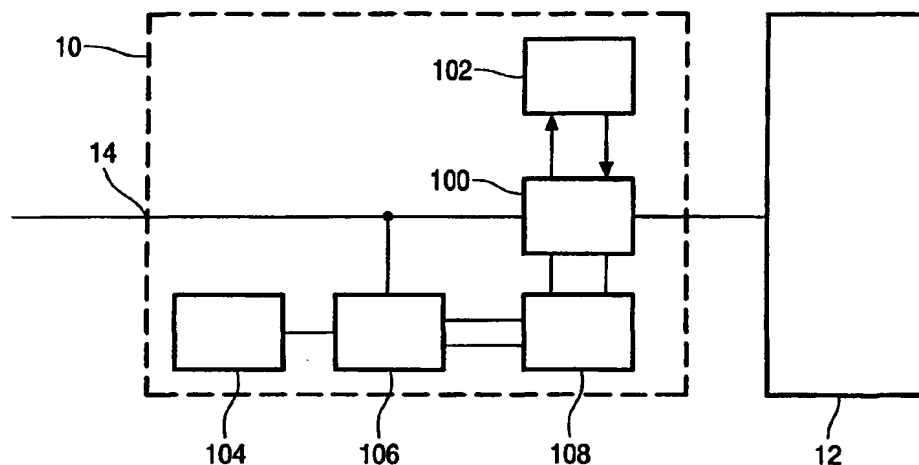
(72) Inventors; and

(75) Inventors/Applicants (*for US only*): **KLOSTERS, Franciscus, J.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **HEUTS, Patrick, W., H.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **BEVERLOO, Joris, R.** [NL/NL]; c/o Prof. Holstlaan 6, NL-5656 AA Eindhoven (NL). **HEULE, Hendrik, B.**

Published:  
— with international search report

[Continued on next page]

(54) Title: DATA PROCESSING APPARATUS THAT IDENTIFIES A COMMUNICATION CLOCK FREQUENCY



(57) **Abstract:** A data processing apparatus receives a message containing a sync break interval with a unique bit pattern and a sync field interval identified by the sync break interval. A timing property of the sync field interval specifies the length of bit periods of the message. A clock source circuit supplies a sampling clock signal to define time points for sampling bits from the message. The clock source circuit adapts a frequency of the sampling clock signal to the timing property of the sync field interval. The clock source circuit searches for potential sync break intervals that match the unique bit pattern for a range of bit period values and verifies for each potential sync break interval whether the sync field interval identified by that potential sync break interval specifies a bit period with a duration so that the sync break interval matches the unique pattern for the specified bit period, as a condition prior to supplying the sampling clock signal at the adapted frequency specified by the sync field interval identified by the potential sync break interval. Supply of sampling clock signals is preferably suppressed after an end of a preceding message until said condition is met.

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